

### **Abstract of the Displeasure**

A method is described for producing phyllosilicate-intercalation compounds with an increased expansion rate and/or a modified onset temperature by intercalating intercalate compounds in native, expandable phyllosilicates, especially native vermiculite. The method is wherein at least one representative of the group comprising alcoholates of lithium and potassium and salts of lithium, sodium and potassium with organic acids is intercalated as intercalate compounds in the native phyllosilicate. Furthermore, the phyllosilicate-intercalation compounds obtained thereby and their use as intumescent materials, as intumescent, fire-retarding additive and/or in expanded form, can be used as additive for producing flame-retarding materials, as well as for preparing high temperature-resistant insulating panels and seals.